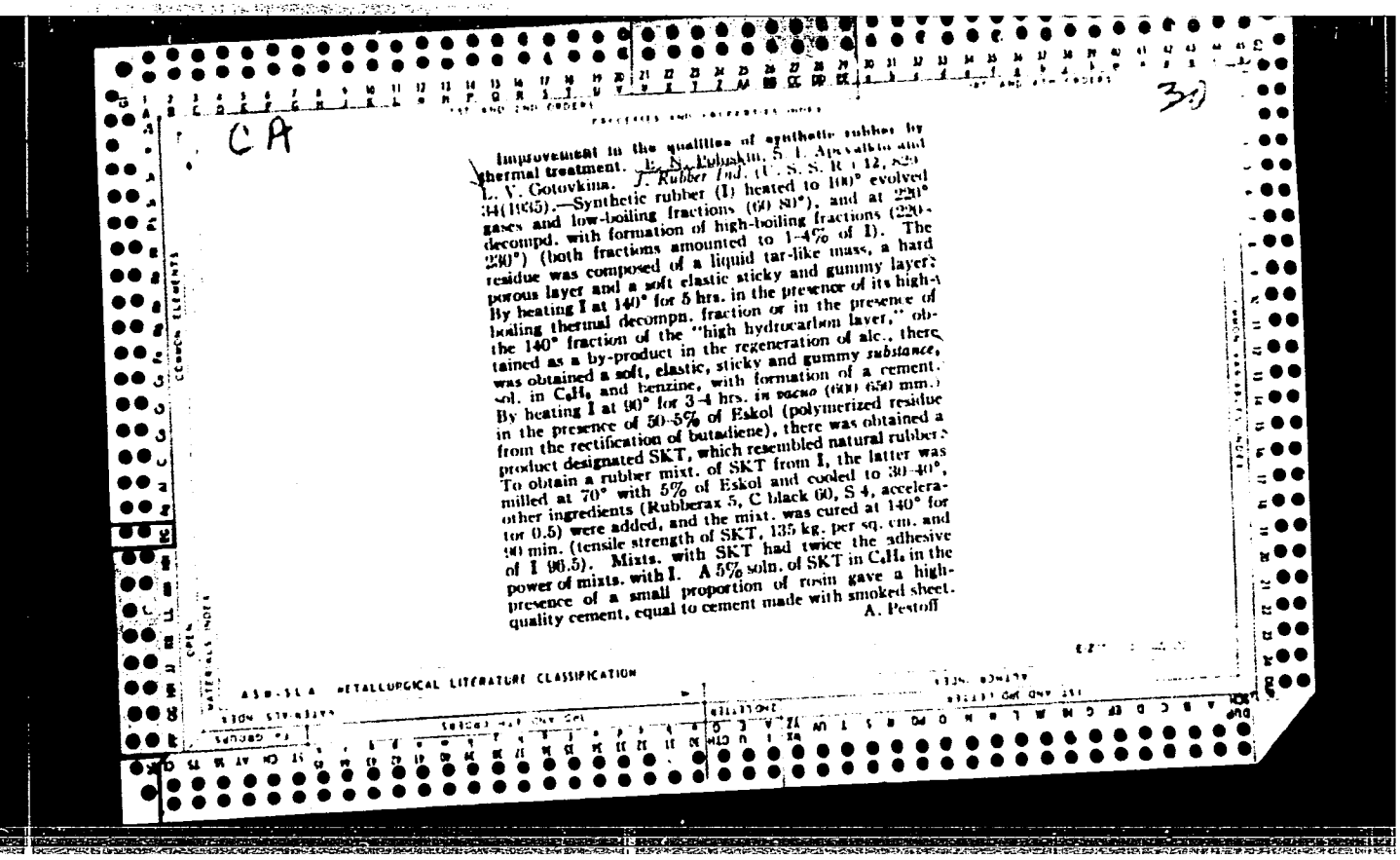
"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6



CA

Improvement in the qualities of synthetic rubber by thermal treatment. L. N. Lubiakin, S. I. Apresbita and L. V. Gotovkina. *J. Rubber Ind. (U. S. S. R.)* 12, 829-34(1935).—Synthetic rubber (I) heated to 100° evolved gases and low-boiling fractions (60-80°), and at 220° decompd. with formation of high-boiling fractions (220-230°) (both fractions amounted to 1-4% of I). The residue was composed of a liquid tar-like mass, a hard porous layer and a soft elastic sticky and gummy layer. By heating I at 140° for 5 hrs. in the presence of its high-boiling thermal decompn. fraction or in the presence of the 140° fraction of the "high hydrocarbon layer," obtained as a by-product in the regeneration of alc., there was obtained a soft, elastic, sticky and gummy *substance*, sol. in C_6H_6 and benzine, with formation of a cement. By heating I at 90° for 3-4 hrs. *in vacuo* (600-650 mm.) in the presence of 50-5% of Eskol (polymerized residue from the rectification of butadiene), there was obtained a product designated SKT, which resembled natural rubber. To obtain a rubber mixt. of SKT from I, the latter was milled at 70° with 5% of Eskol and cooled to 30-40°, other ingredients (Rubberax 5, C black 60, S 4, accelerator 0.5) were added, and the mixt. was cured at 140° for 90 min. (tensile strength of SKT, 135 kg. per sq. cm. and of I 96.5). Mixts. with SKT had twice the adhesive power of mixts. with I. A 5% soln. of SKT in C_6H_6 in the presence of a small proportion of rosin gave a high-quality cement, equal to cement made with smoked sheet.

A. Pestoff

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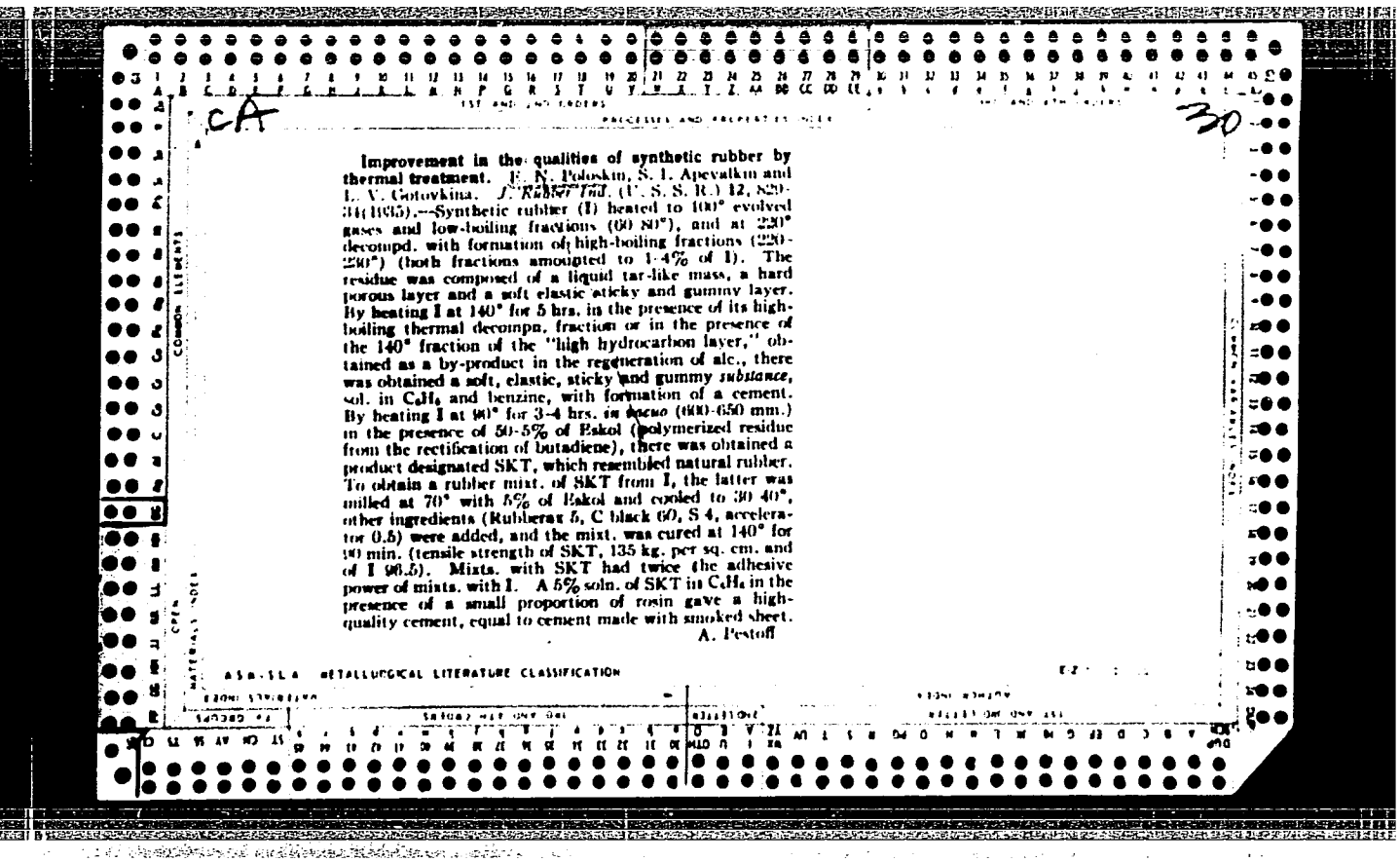

CA

30

Improvement in the qualities of synthetic rubber by thermal treatment. P. K. Poloskin, S. I. Apevalkin and L. V. Gotovkina. *J. Rubber Ind.* (U. S. S. R.) 12, 829-34(1935).—Synthetic rubber (I) heated to 100° evolved gases and low-boiling fractions (60-80°), and at 220° decompd. with formation of high-boiling fractions (220-240°) (both fractions amounted to 1-4% of I). The residue was composed of a liquid tar-like mass, a hard porous layer and a soft elastic sticky and gummy layer. By heating I at 140° for 5 hrs. in the presence of its high-boiling thermal decompn. fraction or in the presence of the 140° fraction of the "high hydrocarbon layer," obtained as a by-product in the regeneration of alc., there was obtained a soft, elastic, sticky and gummy *substance*, sol. in C_6H_6 and benzine, with formation of a cement. By heating I at 90° for 3-4 hrs. *in vacuo* (600-650 mm.) in the presence of 50-5% of Bakol (polymerized residue from the rectification of butadiene), there was obtained a product designated SKT, which resembled natural rubber. To obtain a rubber mixt. of SKT from I, the latter was milled at 70° with 5% of Bakol and cooled to 30-40°, other ingredients (Rubberax 5, C black 60, S 4, accelerator 0.5) were added, and the mixt. was cured at 140° for 90 min. (tensile strength of SKT, 135 kg. per sq. cm. and of I 96.5). Mixts. with SKT had twice the adhesive power of mixts. with I. A 5% soln. of SKT in C_6H_6 in the presence of a small proportion of rosin gave a high-quality cement, equal to cement made with smoked sheet.

A. Pestoff

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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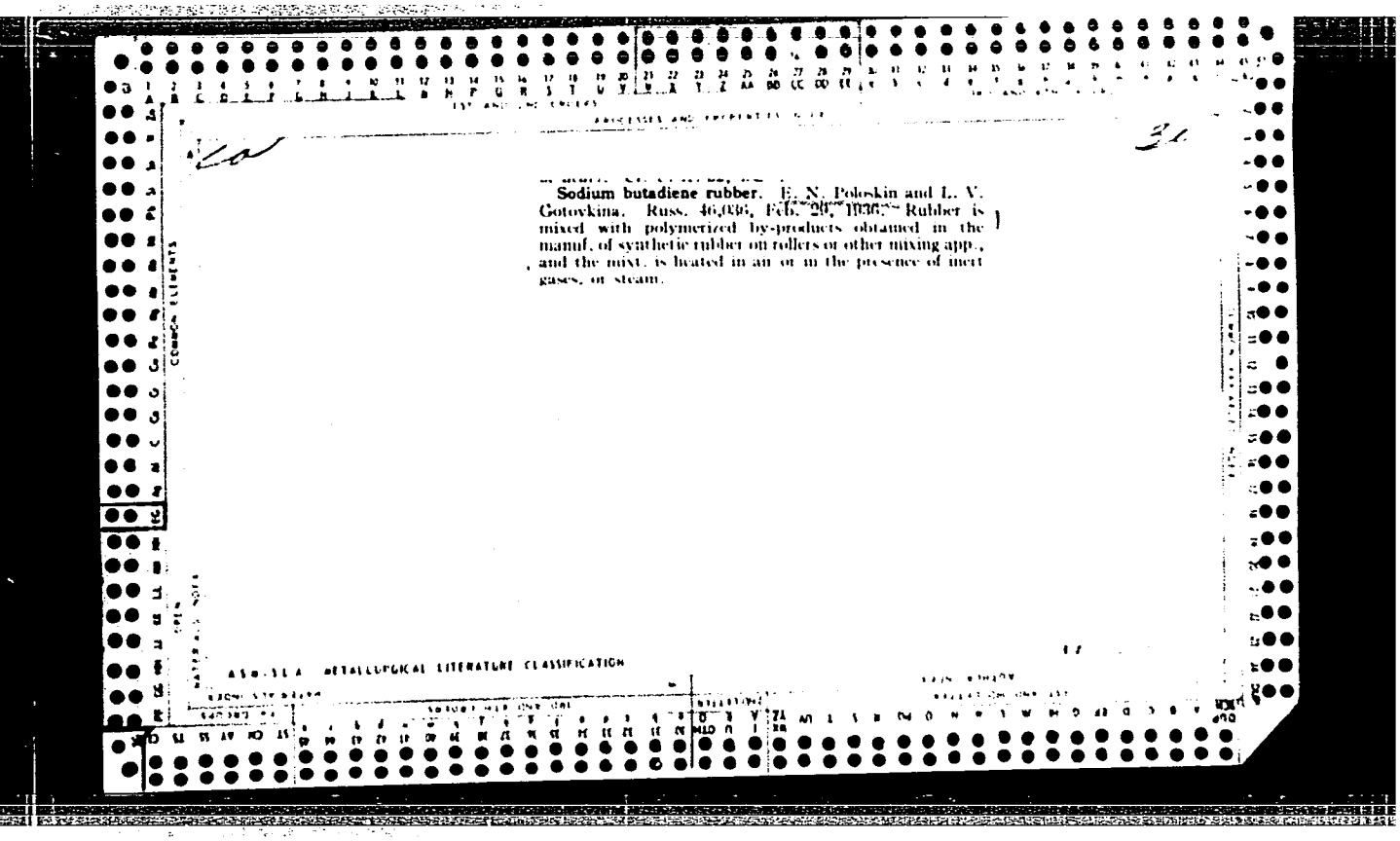

Sodium butadiene rubber. E. N. Poloskin and L. V. Gotovkina. Russ. 46,036, Feb. 29, 1936. Rubber is mixed with polymerized by-products obtained in the manuf. of synthetic rubber on rollers or other mixing app., and the mixt. is heated in air or in the presence of inert gases, or steam.

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POLOSKIN, V.; TEPFER, Yu.

All-purpose truck. Avt.transp. 32 no.7:36 Jl '54. (MLRA 7:9)
(Automobiles--Repairing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKIN, V.N., inzhener.

Introducing the use of translucent maps on plexiglas. Trudy VNIMI no.29:151-157 '54. (MLRA 8:3)
(Mining maps) (Plexiglas)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKIN, V.N., inzhener.

Plotting three-dimensional charts of ore bodies on the basis of oblique-angled projections. [Trudy] VNIMI no.28:117-129 '54.
(Ore deposits)(Projection) (MLRA 8:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

LEVITIN, I.A.; POLOSKIN, Ye.N.; BYSTROVA, Z.L.; LADYNINA, E.F.; DORONINA, T.P.

Intensifying the production of resorcinol-formaldehyde solutions for latex impregnation compounds. Kauch.i rez. 21 no.1:47-49 Ja '62. (MIRA 15:1)

1. Moskovskiy shinnyy savod.
(Tire fabrics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

LEVITIN, I.A.; POLOSKIN, Ye.N.; PETROVA, V.D.; MARCHENKO, Ye.D.

Investigating the physical antiozonants of various origins.
Kauch.i rez. 22 no.4:14-17 Ap '63. (MIRA 16:6)

1. Moskovskiy shinnyy zavod.
(Rubber) (Ozone)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

IEVITIN, I.A.; POLOSKIN, Ye.N.; PETROVA, V.D.; MARCHENKO, Ye.D.

Unit for rubber testing for ozone resistance. Kauch.i rez. 21 no.8:51-53 Ag '62. (MIRA 16:5)

1. Moskovskiy shinnyy zavod.

(Rubber—Testing)

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L 13661-63 EWP(j)/EWT(m)/BDS AFFTC/ASD Pc-4 RM

ACCESSION NR: AP3001427 S/0138/63/000/004/0014/0017

AUTHOR: Levitin, I. A.; Poloskin, Ye. N.; Petrova, V. D.; Marchenko, Ye. D.

TITLE: An investigation of physical antiozonants of various origin

SOURCE: Kauchuk i rezina, no. 4, 1963, 14-17

TOPIC TAGS: ozone, antiozonant, paraffin, ceresine, wax, rubber

ABSTRACT: The antiozonants under study were domestic paraffins, natural and synthetic ceresines, as well as imported microcrystalline waxes, which were presumably mixtures of paraffins and isoparaffins. Their density, viscosity, softening point, and microscopic picture were studied. The paraffins are characterized by large crystals and a low basic viscosity at 35C of 9-16 Eta, the ceresines having a microcrystalline structure and a basic viscosity of 19-38 Eta, while the imported waxes showed basic viscosities of 16-44 Eta. Superior brands of 100% NK and BCK protector-type rubber, containing 2% of the above physical antiozonants, were placed in a chamber containing 1/10000% by weight of ozone. Under static conditions, the imported waxes, a ceresine brand, as well as some domestic paraffins were able to protect the surface cracking of rubber for a 100-minute period, while the protective effect of the remaining paraffins and ceresines did not last over 17-20 minutes. Under dynamic conditions, on the other hand, two ceresines, with melting points of

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ACCESSION NR: AP3001427

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90.8 and 72.6C, showed some protective effect. The balance of the antiozonants under study exhibited no beneficial effect whatsoever. It is suggested that while under static conditions a paraffin or ceresine may provide protection against the destructive effect of ozone by film formation on the surface of the rubber, the said film would crack under the impact of dynamic stresses. The present work was conducted at the All-Union Scientific Research Institute of the Oil Industry. Orig. art. has: 2 charts and 1 table.

ASSOCIATION: Moskovskiy shinnyy zavod (Moscow Tire Factory)

SUBMITTED: 00 DATE ACQ: 30May63 ENCL: 00

SUB CODE: 00 NO REF SOV: 002 OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

LEVITIN, I.A.; POLOSKIN, Ye.N.; KALACHEVA, A.V.; DORONINA, T.P.

Polarographic study of the condensation of resorcinol with formaldehyde in solutions used in the preparation of latex impregnation compounds. Kauch.i rez. 21 no.7:46-49 Jl '62. (MIRA 15:7)

1. Moskovskiy shinnyy zavod.
(Resorcinol) (Formaldehyde) (Polarography)

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A051/A126

15.9300

AUTHORS: Levitin, I. A., Poloskin, Ye. N., Petrova, V. D., Marchenko, Ye. D.

TITLE: Apparatus for testing ozone resistance of rubber

PERIODICAL: Kauchuk i rezina, no. 8, 1962, 51 - 53

TEXT: The Moscow Tire Plant has developed and perfected a new apparatus for dynamic testing of the ozone resistance of rubber, based on experiments by the NIIShP and the principle used at the NIIRP. The apparatus determines the ozone resistance under dynamic conditions by periodic expansion of standard rubber samples in a chamber where a given ozone concentration is maintained. The schematic diagram is shown in Figure 2. The test conditions for tread rubber are given by the following figures: constant expansion 15%, variable expansion 25%, expansion frequency 15/min, rate of air supply into the chamber 2ℓ/min, ozone concentration in the chamber $(1\pm0.2)\cdot10^{-4}$ w.p. The disadvantages of the apparatus are: lack of automatic control of ozone concentration and the impossibility of creating temperature conditions within the testing chamber. There are 2 figures.

ASSOCIATION: Moskovskiy Shinnyy Zavod (The Moscow Tire Plant)

Card 1/3

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, K., inzh.

New developments in the techniques of preparing concrete. Bud. mat. i konstr. 4 no.3:39-42 My-Je '62. (MIRA 15:5)
(Concrete)

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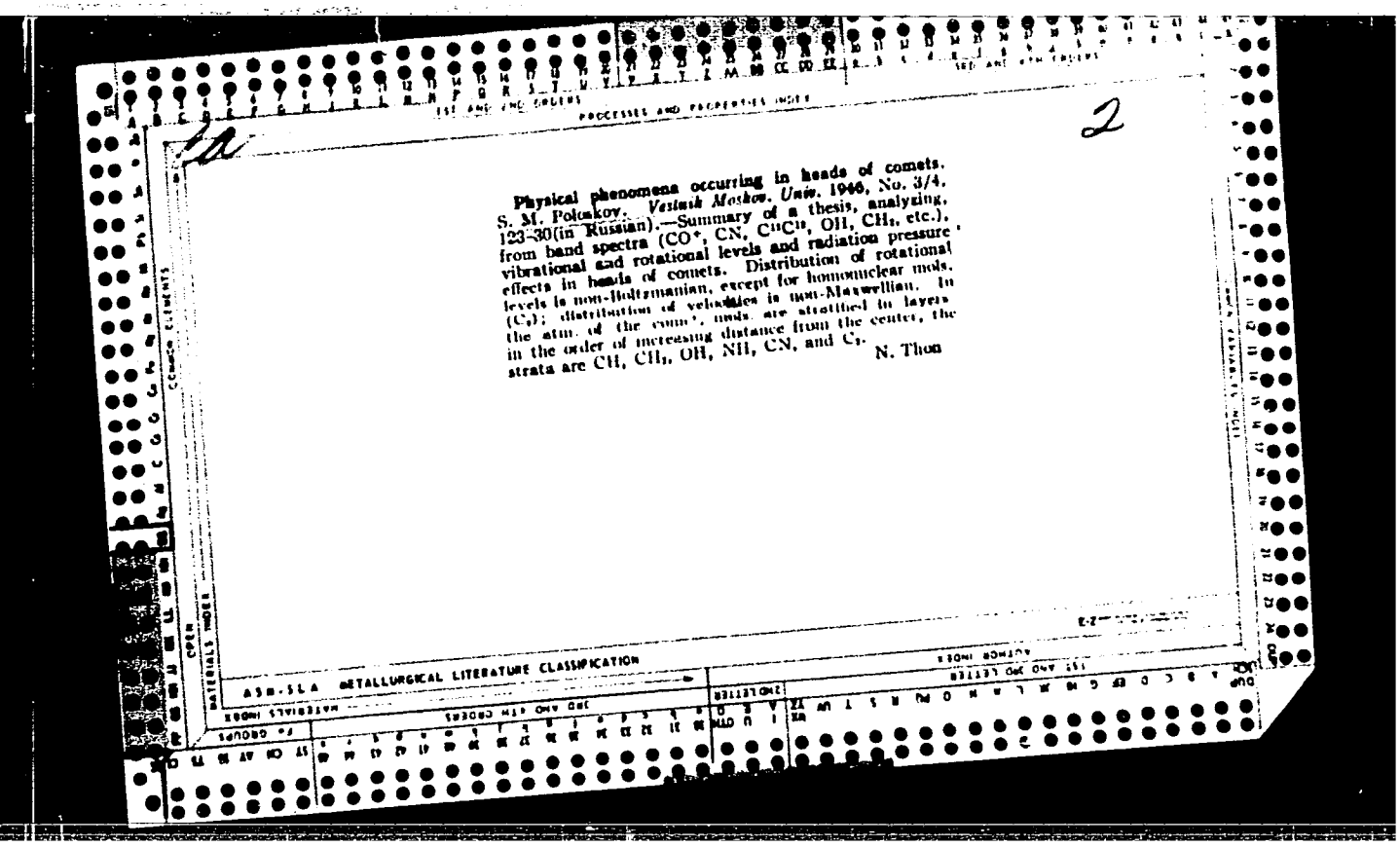

Physical phenomena occurring in heads of comets. S. M. Polozkov. *Vestnik Moskov. Univ.* 1946, No. 3/4, 123–30(in Russian).—Summary of a thesis, analyzing, from band spectra (CO^+, CN, C_3, OH, CH_2, etc.), vibrational and rotational levels and radiation pressure effects in heads of comets. Distribution of rotational levels is non-Boltzmanian, except for homonuclear mols. (C_2); distribution of velocities is non-Maxwellian. In the atm. of the comet, mols. are stratified in layers in the order of increasing distance from the center, the strata are CH, CH_2, OH, NH, CN, and C_2.

N. Thon

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.

Poloskov, S. M. "On the magnetic fields of the earth and stars," (in connection with the work of P.M.S. Blaketa, "The magnetic field of rotating bedies," in the journal Uspekhi fiz. nauch., Vol. XXXIII, Issue 1, 1947), Vestnik Mosk. un-ta, 1948, No. 9, p. 41-46 - Bibliog: p. 46

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

USSR/Astronomy Nov/Dec 48
Comets
Light Pressure

"Light Pressure Upon Molecules of Comets and Stratification of Molecules in Atmospheres of Comets," S. M. Poloskov, State Astr Inst imeni P. K. Shternberg, 12 pp

"Astron Zhur" Vol XXV, No 6

Carried out calculation of $1+\mu$, the ratio of the value of the impulse transmitted to one molecule by photons to the value of the impulse transmitted to the molecule for the same time in a gravitational

PA 56/49T7

56/49T7

USSR/Astronomy (Contd) Nov/Dec 48

field, for CO^+, C, C_2, OH, and CH_2 molecules. New feature of the calculation is the consideration of the oscillator force which, in the case of resonance molecular bands, is not always close to unity, in distinction to resonance lines of atoms. Carried out a calculation for the time required for a CO^+ molecule to reach the boundaries of the head and tail for conditions approximating those of Halley's comet at a distance of one "AE" (Astronomical Unit) from the sun.

POLOSKOV, S. M.

56/49T7

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

"The Pressure of Light upon Molecules in the Atmospheres of Comets", 15 No. 4, 1949. State Astronomical Inst imeni P. K. Shternberg. -c1949-.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

PA 192T5

USSR/Astronomy - Comets Sep/Oct 51

"Ionization of Molecules in Comets," S. M. Poloskov, State Astr Inst imeni Shternberg

"Astron Zhur" Vol XXVIII, No 5, pp 372-381

Problem consists in explanation of simultaneous existence in atms of comets of neutral and ionized mols. Poloskov discusses photo-ionization by sun and dissociation of primary mols. Much research was contributed by A. V. Yakovleva in photodissociation ("Zhur Eksper i Teoret Fiz" Vol IX, 1939)

USSR/Astronomy - Comets (Contd) Sep/Oct 51 192T5

and by I. S. Shklovskiy on effect of solar short-wave radiation ("Iz Krim Astrof Obs" Vol IV, 1949; "Astron Zhur" Vol XXII, 1945; "Uspekh Fiz Nauk" Vol XXX, 1946).

192T5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.

Density of matter in the heads and tails of comets, the mass of constituent gas in comets and the mass of comets. Soob.GAISH no.60:3-13 '51. (MLRA 7:5)

(Comets)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

USSR/Astronomy - Solar Eclipse 1952 Jun 52

"Solar Eclipse of 25 Feb 1952," S.M. Poloskov

"Priroda" Vol 41, No 6, pp 67-74

Author took part in the expedition of Astr Inst imeni Shternberg, which left Moscow 25 Jan 52 for the village of Archman, Ashkhabadskaya Oblast, Turkmen SSR. Expedition of Acad Sci Turkmen SSR whose members were hosts to other expeditions, worked in Nukhur, 18 km from Archman, at 2,000 m altitude. Author describes the hardships of living conditions in the "resort" and the unpredictable moods of the weather. States that by chance, meteorological conditions were favorable during the eclipse. A spectrograph of Pariyskiy's design, produced entirely in USSR, was used. The eclipse was recorded in color photography.

229T74

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

PA 24T42

USSR/Astronomy - Radio Emission Jan/Feb 53

"Radio Emission of Comets," S.M. Poloskov, Astron Council, Acad Sci USSR

"Astron Zhur" Vol 30, No 1, pp 68-75

Analyzes theoretical, not yet observed, possibility of radio emission of tail, produced by collision of electrons and ionic gas, and attempts to determine its intensity. States that monochromatic radio emission should be observed in case of favorable position of comet in respect to earth. Received 30 Aug 52.

246T42

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.

Discussion of I.S.Shklovskii's book "The solar corona." Astron.zhur. 30 no.4:459-463 Jl-Ag '53. (MLRA 6:8)

(Sun--Corona) (Shklovskii, I.S.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.

[Soviet science on the origin and development of the celestial bodies] Sovetskaia nauka o proiskhozhdenii i razvitii nebesnykh tel. Moskva, Goskul'tprosvetizdat, 1954. 52 p. (MLRA 8:2D)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.

Posibility of detecting a continuous and monochromatic radio-wave radiation of comets. Trudy AN Tadzh. SSR 20:13-23 '54.
(MIRA 13:3)

(Comets) (Radio astronomy)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

USSR/ Miscellaneous Book reviews

Card : 1/1

Authors : Poloskov, S. M., Candidate of Physical Mathematical Sciences; Shneider, Yu. I., Candidate of Biological Sciences; Bykhovskiy, B. E., Prof.

Title : Comments and bibliography

Periodical : Priroda, 43/7, 119 - 126, July 1954

Abstract : The above authors, respectively, review the following books:
"The Sun and its Observation", by V. V. Sharonov,
"Bacterial Diseases in Plants", by M. V. Gorlenko, and
"Design for a Brain", by W. Ross Ashby (English book).

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, Sergey Matveyevich

(Astronomical Council Acad Sci USSR), Academic degree of Doctor of Physico-mathematical Sciences, based on his defense, 28 June 1955, in the Council of the Moscow,Order of Lenin and Order of Labor Red Banner State U imeni Lomonosov, of his dissertation entitled: Elementary processes taking place in comets and the physics problems in comets connected with them."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 24, 26 Nov 55, Byulleten' MVO SSSR, No. 20, Oct 57, Moscow, pp 22-24, Uncl. JPRS/NY-471

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

Poloskov, S.M.

PH The infrared spectrum of comets. S. M. Poloskov. *Voprosy Kosmogonii, Akad. Nauk S.S.S.R.* 4, 81–15 (1955).—The infrared spectrum of comets and the possibility of explaining the intense radiation at λ = 7906 and λ = 8109 A. by the presence of di- or polyat. neutral mols. are discussed. It is shown that the radiation cannot be attributed to mols. of NH_3 or HCN which might be present, nor to the presence of neutral diat. mols. The radiation is explained on the basis of a new system ($^2\Pi - {}^2\Sigma$) of the N_2^+ mol.

J. Rovtar Leach

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.

USSR/ Astronomy - Solar system's magnetic field

Card 1/1 Pub. 8 - 6/13

Authors : Pikel'ner, S. B., and Poloskov, S. M.

Title : The possibility of evaluating the solar system's magnetic field by studying the movement of substances in the gaseous tails of comets

Periodical : Astron. zhur. 32/1, 45-47, Jan-Feb 1955

Abstract : The possibility is discussed of evaluating the solar system's magnetic field by studying the movement of substances in the gaseous tails of comets. Five references: 3 USSR, 1 German and 1 French (1951-1953). Diagram.

Institution : Council of the Acad. of Scs., USSR, The Crimean Astrophysical Observatory

Submitted : June 1, 1954

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.

USSR/ Astronomy - Comet spectra

Card 1/1 Pub. 22 - 8/60

Authors : Poloskov, S. M.

Title : Identification of the infrared spectrum of comets

Periodical : Dok. AN SSSR 100/4, 639-642, Feb 1, 1955

Abstract : Spectra from comets 1947K, 1947n and 19481 are discussed, with particular reference to their infrared parts. The point at issue is that the observed emanation band λ_r7957 and λ_b7858 was connected by Swings and Page with the so-called "red system" CN, which is here held to be incorrect. The author believes, that the detected spectral band is due to a new resonance system $^4\Pi - ^2\Sigma$ recently discovered at the molecule N_2^+. Seven references: 6 USA and 1 USSR (1948-1953). Table.

Institution : Acad. of Sci., USSR, Astronomical Council

Presented by: Academician G. A. Shayn, September 29, 1954

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

"Monochromatic Radioemission of Cometary Molecules," a paper read at the 7th International Astrophysical Colloquium, Liege, 12-14 Jul 1956.

A theoretical study of the possibility of observing monochromatic radioemission is given, and it is concluded that monochromatic radioemission can probably be observed by means of the existing instruments only in the case of large and very bright comets under the condition of their particularly favorable position in respect to the Earth.

SO: 568946

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M.

"Conditions of Molecule Visibility (Observability) in Comet Atmospheres," a paper read at the 7th International Astrophysical Colloquium, Liege, 12-14 Jul 1956.

The observed uniformity of the chemical composition and the observed similarity of comet spectra may be interpreted in a unique sense. Investigation of the pecularities of the spectra of diatomic combinations, composed of atoms that are abundant in nature, leads to the conclusion that radiation is emitted by a comparatively small group of molecules.

SO: 568946

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M. and MIRTOV, B. A.

The Study of the Upper Atmosphere with the Aid of Rockets at th Academy of Sciences of the UssR" a paper submitted at the International Congress of Rockets and Guided Missiles for Continental Connections and Telecommunications, 3-8 Dec 56, Paris.

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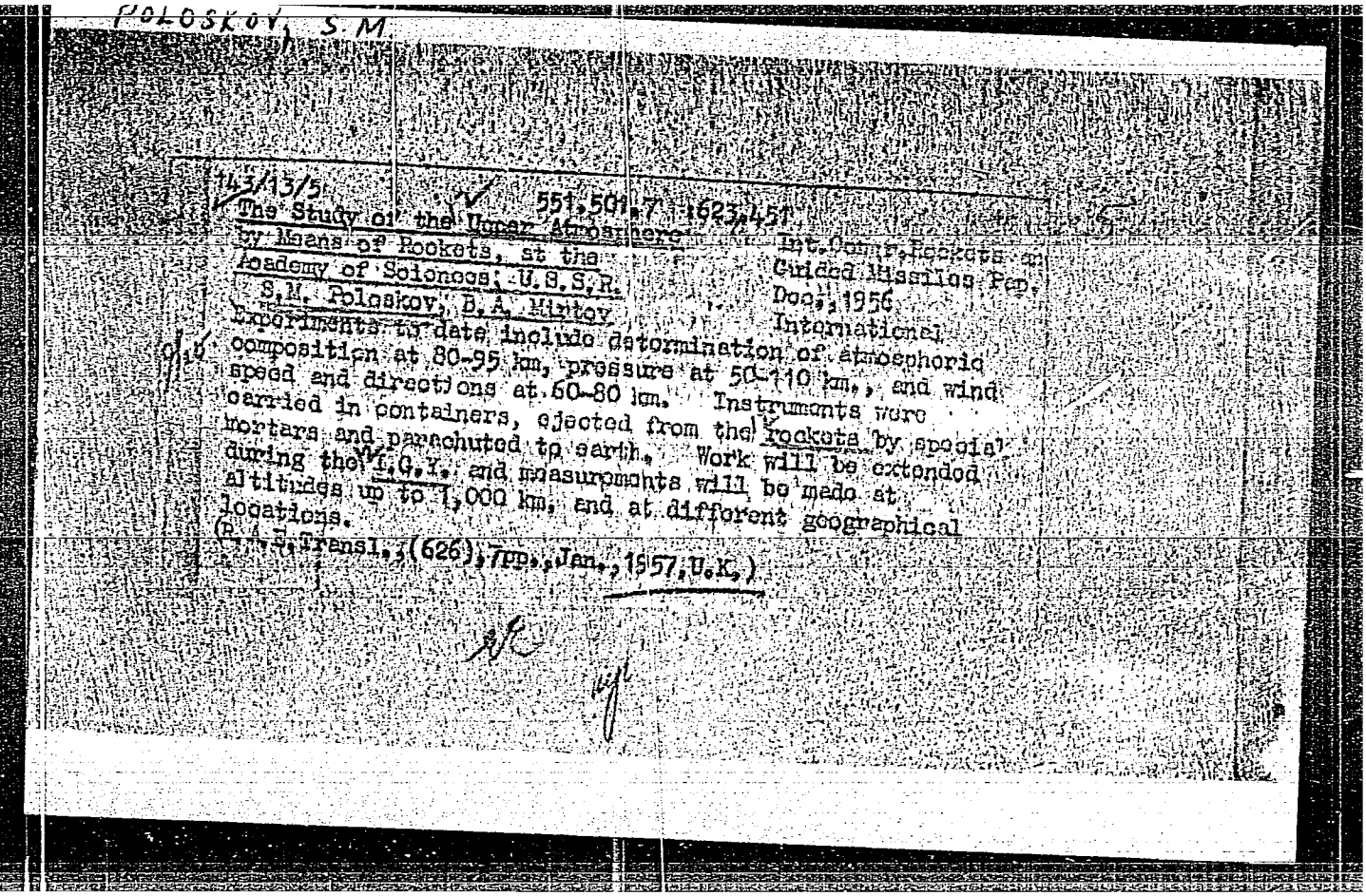

POLOSKOV, S.M.

143/13/5 551.501.7 1623.451

The Study of the Upper Atmosphere by Means of Rockets, at the Academy of Sciences, U.S.S.R.

S.M. Poloskov, B.A. Mintoy

Int. Conf. Rockets and Guided Missiles Rep. Dec., 1956

International

Experiments to date include determination of atmospheric composition at 80-95 km, pressure at 50-110 km., and wind speed and directions at 60-80 km. Instruments were carried in containers, ejected from the rockets by special mortars and parachuted to earth. Work will be extended during the I.G.Y. and measurements will be made at altitudes up to 1,000 km, and at different geographical locations.

(R.A.E. Transl., (626), 7pp., Jan., 1957, U.K.)

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Poloskov, S. M.

USSR/ Geophysics - Conferences

Card 1/1 Pub. 124 - 24/39

Authors : Poloskov, S. M.

Title : The physics of solar corpuscular streams

Periodical : Vest. AN SSSR 26/2, 118-119, Feb 1956

Abstract : Minutes are presented from the special scientific conference held during November 22-25, 1955, at the Geophysics Institute of the Academy of Sc., USSR and devoted to the physics of corpuscular solar streams and their effects on the upper layer of the terrestrial atmosphere and the magnetic field of the Earth. Names of scientists attending the conference are listed.

Institution : .....

Submitted : .....

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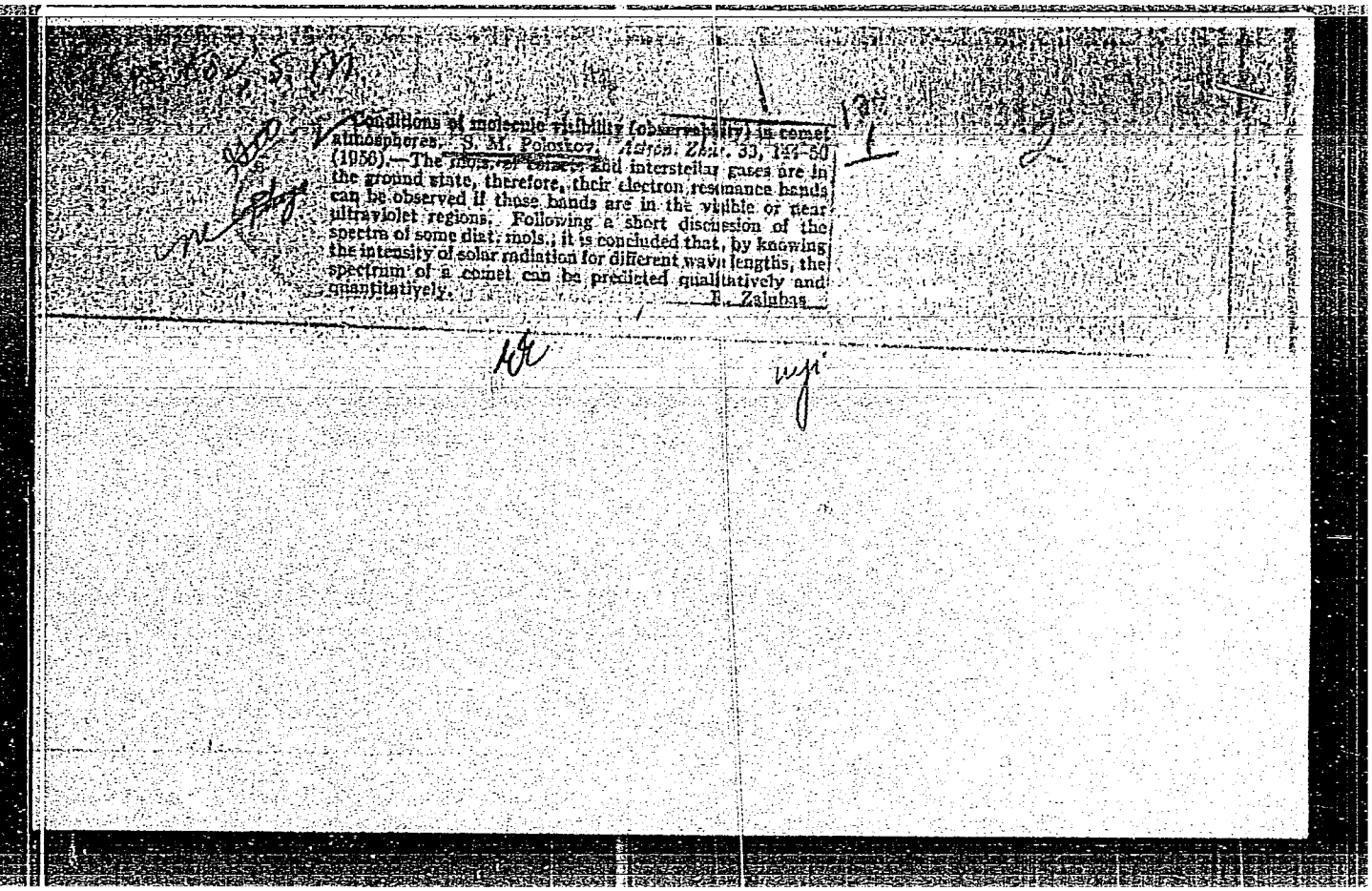

Conditions of molecule visibility (observability) in comet atmospheres. S. M. Polozov. *Astron. Zhur.* 33, 141–50 (1956).—The gases of comets and interstellar gases are in the ground state, therefore, their electron resonance bands can be observed if those bands are in the visible or near ultraviolet regions. Following a short discussion of the spectra of some diat. mols., it is concluded that, by knowing the intensity of solar radiation for different wave lengths, the spectrum of a comet can be predicted qualitatively and quantitatively.

E. Zalubas

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POLOSKOV, S.M.

Conference on the nature of the corpuscular radiation of the sun and on the study of its effect on the earth's upper atmosphere and magnetic field. Vop. kosm. 5:291-296 '57. (MLRA 10:8)
(Solar radiation) (Atmosphere, Upper) (Magnetic fields)

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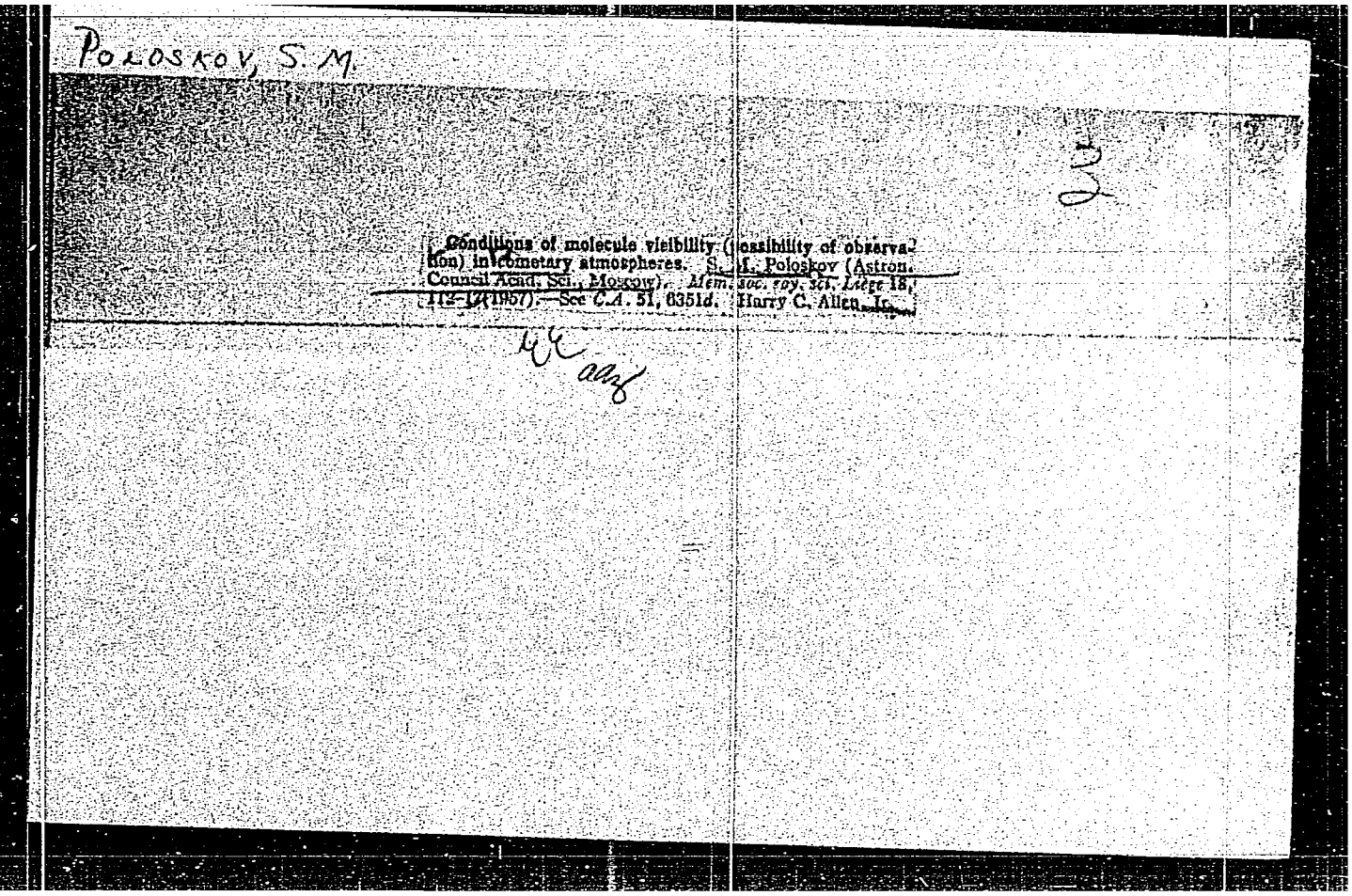

Poloskov, S. M.

Conditions of molecule visibility (possibility of observation) in cometary atmospheres. S. M. Poloskov (Astron. Council Acad. Sci., Moscow). *Mem. soc. roy. sci. Liège* 18, 112–17 (1957).—See *C.A.* 51, 6351d. Harry C. Allen, Jr.

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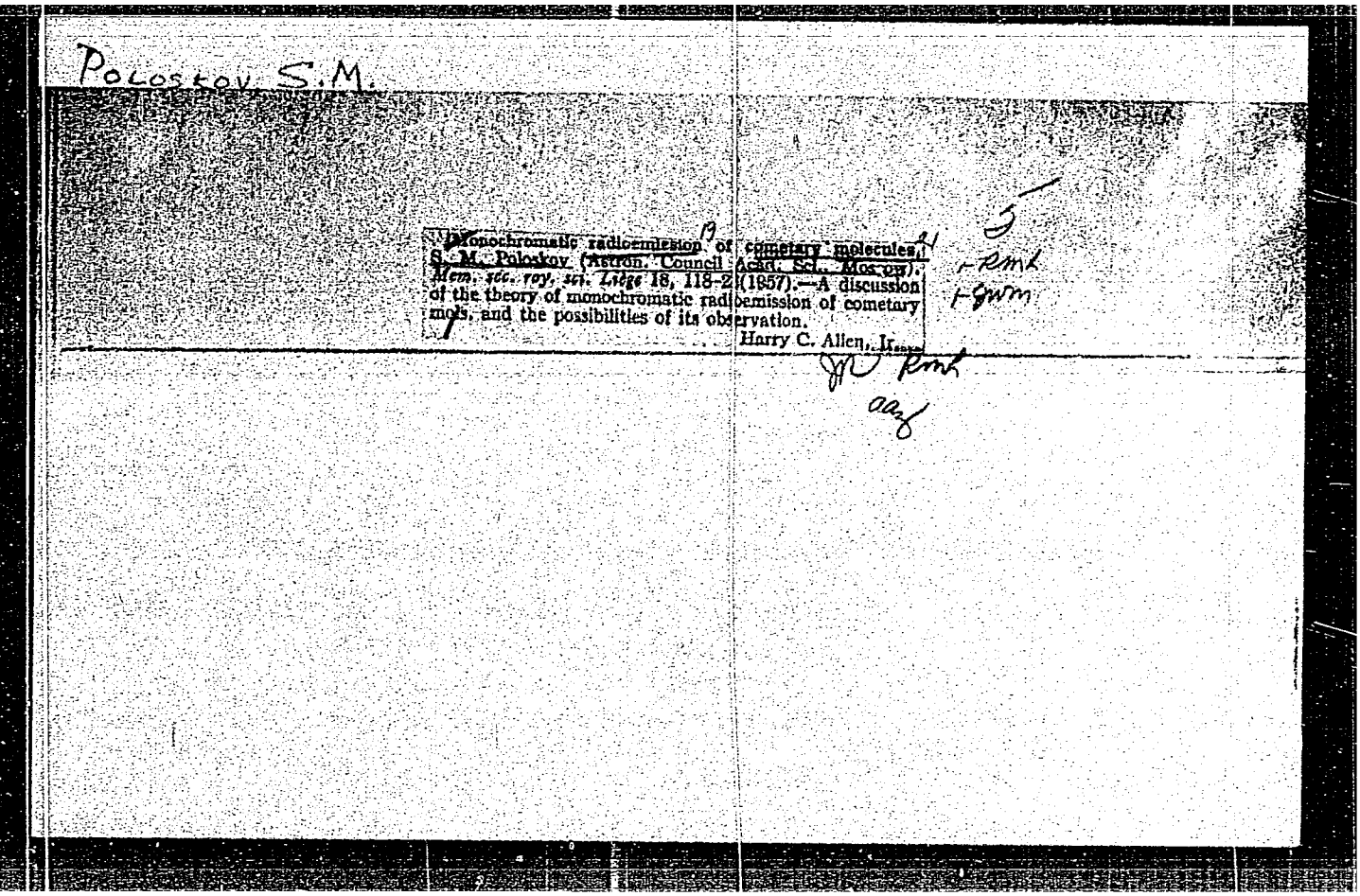

POLOSKOV S.M.

Monochromatic radioemission of cometary molecules. S. M. Poloskov (Astron. Council Acad. Sci., Moscow). *Mem. soc. roy. sci. Liège* 18, 118-27 (1957).—A discussion of the theory of monochromatic radiation of cometary molecules, and the possibilities of its observation.
Harry C. Allen, Jr.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

53-1b-17/18

AUTHOR: POLOSKOV, S.M., NAZAROVA, T.N.

TITLE: The Investigation of the Solid Component of Interplanetary Matter by Means of Rockets and Artificial Earth Satellites. (Issledovaniye tverdoy sostavlyayushchey mezhplanetnogo veshchestva s pomoshch'yu raket i iskusstvennykh sputnikov Zemli, Russian)

PERIODICAL: Uspekhi Fiz. Nauk, 1957, Vol 63, Nr 1b, pp 253 - 265 (U.S.S.R.)

ABSTRACT: The study of the meteoric matter entering into the terrestrial atmosphere is also of great geophysical importance. Special interest (with respect to the motion of rockets and artificial earth satellites) is caused by the following problems: 1) The determination of the flux of meteoric particles. 2) The study of their energy spectrum. The spectrum of the masses and the spectrum of the velocities should here be determined separately. The solid component of the interplanetary matter is investigated by direct methods (with rockets) and by indirect methods. The astronomical methods and the various methods for the study of meteoric matter falling onto the earth belong to the indirect methods. Hitherto only indirect methods have been applicable, their results are sparse and contradictory. Reliable results are probably obtained only by means of rockets and artificial earth satellites.

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The Investigation of the Solid Component of Interplanetary Matter by Means of Rockets and Artificial Earth Satellites.

scratched traces on the polished surface of the rockets, by recording the sound energy produced by collisions, as well as by recording light impulses by means of photomultipliers. The traces of the micrometeors consist of craters having a depth of some microns and a diameter of some millimeters. At the edges of the craters tempering colors are observed. Even these smallest particles may do serious damage to the surface of optical apparatus. On the occasion of acoustic experiments carried out with a V2 rocket in 1949 (!) 66 collisions were measured from the 70th up to the 214th second of its flight. Several other acoustic measurements are discussed, after which the device developed by O.E.BERG and L.H.MEREDITH(J. of Geoph. Res. Vol 61, Nr 4, 1956) is described. According to an American measuring test carried out with an Aerobee rocket a collision occurs on the averagy every 57 seconds on 1 cm^2. Meteorites do not come from a certain radiant. The factors by which these measurements are perturbed are then discussed. The rockets or satellites may also collide with corpuscles ejected by the sun or belonging to the primary cosmic

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POLOSKOV, S. M.

29(2) PHASE I BOOK EXPLOITATION SOV/2894

Akademiya nauk SSSR

Iskusstvennyye sputniki zemli. Vyp. 2: Rezul'taty nauchnykh issledovaniy, poluchennykh pri pomoshchi tret'yego iskusstvennogo sputnika zemli (Artificial Earth Satellites. No.2: Results of Scientific Studies Obtained by the Third Earth Satellite.) Moscow, Izd-vo AN SSSR, 1958. 82 p. 3,500 copies printed.

Ed.: L. V. Kurnosova; Ed. of Publishing House: D. M. Alekseyev; Tech. Ed.: Ya. V. Rylina.

PURPOSE: This work is intended for geophysicists, meteorologists, and other scientific and technical personnel engaged in space exploration and research.

COVERAGE: This collection of articles contains certain of the scientific findings recorded by the third Soviet space satellite. Much corroborating data from other rocket and satellite investigations are included. The articles are based on papers originally read at the Fifth Assembly of the

Card 1/4

of the Special IGY Committee held in Moscow in August, 1958. Individual articles discuss the ionic composition and density of the atmosphere, the thermodynamic parameters of the stratosphere, and questions dealing with the motion of the satellite. References accompany each article.

Krasovskiy, V.I. Soviet Research of the Ionosphere by Means of Rockets and Artificial Earth Satellites 36

Bolgiano, S.Sh., L.S. Zhugov, and E.V. Pushkov. Preliminary Report on Geomagnetic Measurements on the Third Soviet Artificial Earth Satellite 50

Kondratyev, O.D., S.S. Nazarov, L.S. Nersesov, N.N. Pilyugin, and L.Z. Rusanova. Studies of Micrometeorites by Rockets and Satellites 54

Krasovskiy, V.I., Yu.N. Rubinin, G.A. Bordovskiy, G.F. Zakharov, and Yu.M. Zav'yalskiy. Detection of Corpuscles by the Third Artificial Earth Satellite 59

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Kurnosova, L.V., L.A. Shternov, and M.T. Fradkin. Heavy Nuclei in Primary Cosmic Radiation 70

Artificial Earth Satellites (Cont.) SOV/2894

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Izakovich, M.Z. and E.A. Ryy. Acoustical Method of Measuring the Mechanical Parameters of Meteorites 81

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KOMISSAROV, O.D.; NAZAROVA, T.N.; NEUGODOV, L.N.; POLOSKOV, S.M.; KUSAKOV, L.Z.

Studying micrometeorites by rockets and satellites. Isk.sput. Zem. no.2:54-58 '58. (MIRA 12:5)
(Meteorites) (Radio astronomy)

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POLOSKOV, S.M.

"Upper Atmosphere Structure Parameters According to Investigation Data Obtained on Rockets and Satellites in the USSR During IGY."

report presented at the 1st Intl Space Science Symposium, Nice, France, January 1960.

Academy of Sciences, USSR.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

Name : POLOSKOV, S. M.

Title : Doctor of Physico-Mathematical Sciences.

Remarks : S. M. POLOSKOV is the author of an article entitled "The Scientific Equipment of the Third Satellite".

Source : M: Stantsii v Kosmose (Stations in Outer Space), a collection of articles, published by the USSR Academy of Sciences, Moskva, 1960, with foreword by Academicians A. N. Nesmeyanov and A. V. Topchiyev, p. 68.

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POLOSKOV, S.M

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Pravda, Moscow.

Vtoroy Sovetskiy kosmicheskiy korabl'; materialy, opublikovannyye v gazete "Pravda" (The Second Soviet Cosmic Ship; Materials Published in the Newspaper "Pravda") Moscow, 1960. 198 p. 50,000 copies printed.

Resp. for this Publication: V. Reut and V. Smirnov; Tech. Ed.: V. Yagodkina.

PURPOSE: This book is intended for the general reader.

COVERAGE: The book is a compilation of articles which appeared in the newspaper Pravda after the launching, orbiting, and recovery of the capsule of the Soviet 4,600 kg spaceship on August 19, 1960. The articles give some details of scientific research undertaken in this flight in the fields of biology, cytology, genetics, cosmic radiation, solar radiation, ultraviolet radiation, and radiation levels. A description and

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The Second Soviet Cosmic Ship (Cont.)

three photos of the capsule are given. No personalities are mentioned. There are no references.

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Polosk ov, S.M.

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Mikhaylov, A. A., ed.

Stantsii v kosmose; sbornik statey (Space Stations; Collection of Articles) Moscow, Izd-vo AN SSSR, 1960. 444 p. 25,000 copies printed. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya Serlya)

Resp. Ed.: A. A. Mikhaylov; Compiler: V. V. Fedorov; Ed. of Publishing House: Ye. M. Klyus; Tech. Ed.: I. D. Novichkova.

PURPOSE: This book is intended both for the space specialist and the average reader interested in space problems.

COVERAGE: The book contains 73 short articles by various Soviet authors on problems connected with space travel and the launching of artificial earth satellites and space rockets. Some possibilities of future developments are also discussed. The articles were published in the period of 1957-1960. No personalities are mentioned. There are no references.

II. PRELIMINARY RESULTS OF SPACE INVESTIGATION

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Polotsuyev, A., Candidate of Physical and Mathematical Sciences. Why Does the Amount of Reflected Light From the Sputniks Change? [September 12, 1958] 191
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Maevskiy, A. G., Doctor of Physical and Mathematical Sciences. Outer Space Laboratory [1958] 194
Fedorov, Ye. K., Corresponding Member of the Academy of Sciences USSR. Assault on Outer Space [1958] 204
Isakov, P., Candidate of Biological Sciences. Life on the Sputnik [November 14, 1957] 214

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S. M., DANILOV, A. D., and ISTOMIN, V. G.

"Results of Research into the Ionosphere's Composition with the Help of Rockets and Sputniks, and Explanation of Physical Processes which Determine the Composition of the Static Ionosphere."

Report presented at the Commission on Space Research, 2nd Intl. Symposium and Plenary Meeting, 7-18 April 1961, Florence Italy.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

L'VOVA, A. A.; MIKIROV, A. Ye.; POLOSKOV, S. M.

"Rocket measurements of ozone profiles above the maximum density level during the total solar eclipse of Feb 15, 1961."

report submitted for 5th Intl Space Science Symp (COSPAR), Florence, Italy, 12-16 May 64.

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3,2440

AUTHORS: Poloskov, S.M. and Katasev, L.A.

TITLE: Meteoric methods of studying the upper atmosphere in the light of rocket and satellite data

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1962, 7, abstract 11G38 (Byul. Komis. po kometam i meteoram. Astron. soveta AN SSSR, no. 6, 1961, 11-24)

TEXT: It is pointed out that the meteoric method, being distinguished by its simplicity and "universality", may substantially assist the study of latitudino-longitudinal and seasonal variations of the atmosphere's thermodynamic parameters at heights of 60-120 km. A formula for determining the density of the atmosphere is derived. This formula requires no knowledge of the magnitudes of braking of a meteor, the mass of which is eliminated by means of the luminescence equation:

$$\rho = kv^{-4}I\left[\int_{t_k}^{t} Idt\right]^{-2/3}, \text{ where } k = 2.07\ \frac{Q\delta^{2/3}}{\Lambda\tau^{1/3}}$$

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Meteoric methods ...

acceleration of gravity, and the gas constant, the atmosphere's temperature T can be determined from H_o*. A graph of the temperature-altitude distribution in the height interval from 70 to 110 km is given; it was computed by the meteoric method. Various rocket data on the temperature at the same heights are cited for purposes of comparison. 17 references.
[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.

GOLISHEV, G.I., POLOSKOV, S.M.

Rocket investigations in the Upper Atmosphere in the USSR

Report to be submitted for the 4th International Space Science Symposium (COSPAR) Warsaw, 2-12 June 63

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSKOV, S.M.; MIKHOV, A.Ye.

Electrophotometry of a selected region of the outer solar corona in the visible spectral region during the total solar eclipse of February 15, 1961. Geomag. i aer. 3 no.5:803-811 S-O '63. (MIRA 16:11)

1. Institut prikladnoy geofiziki AN SSSR.

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Pq-4/Pae-2/Pt-10/Peb/Pi-4 SSD(a)/SSD/AFWL/ESD(t) GM

ACCESSION NR: AP5000524 S/0203/64/004/006/1082/1088

AUTHOR: L'vova, A. A.; Mikirov, A. Ye.; Poloskov, S. M.

TITLE: Rocket investigations of ozone distribution with altitude above the maximum concentration level during the total solar eclipse of 15 February 1961

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 6, 1964, 1082-1088

TOPIC TAGS: ozone distribution, ozone distribution rocket measurement, solar eclipse, total solar eclipse, sky brightness, electrophotometer, ultraviolet electrophotometer

ABSTRACT: The results of geophysical-rocket measurements of sky brightness, made with an ultraviolet electrophotometer launched into the region of the lunar shadow during the total solar eclipse of 15 Feb 1961, are discussed. The ultraviolet photometer consisted of a scanning device operating as a photon counter. A "Loza" photomultiplier with a semitransparent cathode served as a radiation detector. The photometer had an operating range of 2200 to 3200 Å. The device scanned space in two mutually perpendicular directions, through 360° in one and through 30° in the other. The total measurement cycle

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lasted 30—33 sec. From the photoelectric multiplier the pulses were applied to the shaping device and then to the integrator. The integrator time constant was 0.5 μsec. The method used for determining ozone content was that of oblique probing, and the data obtained therefore pertains to the upper-ozone layer for altitudes of 40—87 km. Fig. 1 of the Enclosure shows the ozone densities as a function of altitude. A detailed analysis of measurement errors leads the authors to conclude that, in determining ozone concentration, the maximum error did not exceed 73% for all altitudes. Orig. art. has: 7 figures and 4 formulas.

ASSOCIATION: Institut prikladnoy geofiziki (Institute of Applied Geophysics)

SUBMITTED: 06Jun64 ENCL: 01 SUB CODE: AA, EC

NO REF SOV: 004 OTHER: 004 ATD PRESS: 3152

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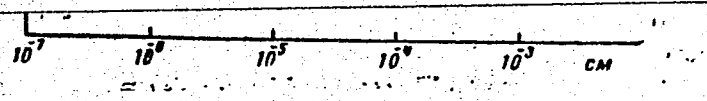

Fig. 1

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L 2939-66 FSS-2/EWT(1)/FCC/EWA(h) GS/GW

ACCESSION NR: AT5023565 UR/0000/65/000/000/0064/0065

AUTHOR: Poloskov, S. M. 44 55

TITLE: Some results of rocket investigations of the upper terrestrial atmosphere for the 1960-1964 period 50 47 B+1

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii Moscow, Izd-vo Nauka, 1965, 64-65

TOPIC TAGS: upper atmosphere, aerosol layer, meteorological rocket, meteorological probe, ozone, atmospheric particle

ABSTRACT: The neutral composition of the terrestrial atmosphere was studied using rf mass spectrometers in geophysical rockets. Data are obtained on the distribution of all of the main neutral gases which make up the atmosphere at altitudes above 100 km, and also on the distribution of trace impurities of nonatmospheric origin. Other parameters studied include upper atmosphere pressure and temperature. The author reports on some geophysical and astronomical data obtained from geophysical rockets during the total solar eclipse on 15 February 1961. The brightness distribution in the outer corona in the spectral region from 3000 to 6000 Å indicates that there are nonuniformities in the solar corona which have linear dimensions of the

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order of 300,000 km. From absorption in the 2700 Å spectral region, the distribution of ozone was determined at altitudes from 40 to 80 km during and after the eclipse. The results show an increase in the ozone concentration at these altitudes during the eclipse. Data are given from a study of scattering of skylight. These data were used to investigate the distribution of aerosol components in the upper atmosphere to altitudes of 450 km. It is shown that atmospheric brightness from 70 to 450 km cannot be explained by Rayleigh scattering or by the natural luminescence of the atmosphere. On the basis of a hypothesis that aerosols are responsible for the observed brightness, the scattering coefficient and concentration of the scattered material are calculated. It is shown that there is an aerosol layer near the earth with a maximum concentration of matter at an altitude of 80—85 km. It is also shown that this layer extends to altitudes above 500 km. Data on the amplitudes and intensities of principal spectral lines in the terrestrial atmosphere were used to determine the luminescence intensity and amplitude of the 5377 and 6300 Å lines and also of the continuous background in the 5300 Å spectral region. [14]

ASSOCIATION: none

SUBMITTED: 02Sep65 ENCL: 00 SUB CODE: ES

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4110

Card 2/2 nd

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

CARD 1/2 PG - 128

SUBJECT USSR/MATHEMATICS/Fourier series
AUTHOR POLOSNEV A.M.
TITLE The more-domensional case of the non-improvable estimations of trigonometric sums with exponential functions.
PERIODICAL Doklady Akad. Nauk 104, 186-189 (1955)
reviewed 7/1956

Korobov has shown (Doklady Akad. Nauk 89, (1953)No.4) that for every function $\varphi(p)$ tending arbitrary slowly to infinity with $p \to \infty$, and for arbitrary integral $m \neq 0$ always an α can be found such that

$$\sum_{x=1}^{p} \exp 2\pi i m \alpha q^x = O(\varphi(p)) \qquad q \geq 2, \text{integral}$$

and that for no α this estimation can be improved to $O(1)$. The author uses Korobov's method and generalizes this result to s exponential functions: For $p \to \infty$ let $\varphi(p)$ be a function tending arbitrary slowly to infinity; $m_1, \ldots, m_s$ be integers not vanishing all at the same time. Then the following estimation is valid:

$$\sum_{x=1}^{p} \exp 2\pi i \sum_{e=1}^{s} m_e \alpha_e q_e^x = O(\varphi(p)).$$

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

MANOYLOV, S.Ye.; VOVSI, B.A.; DMITRIYEVA, V.A.; POLYAKOVA, R.G.

Role of catalase in the processes of tissue respiration in the liver of white mice. Vop.med.khim. 11 no.5:100-101 S-O '65. (MIRA 19:1)

1. Leningradskiy khimiko-farmatsevticheskiy institut Ministerstva zdravookhraneniya RSFSR. Submitted January 17, 1965.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSSIN, V. A.

Mar 1947

USSR/Chemistry - Systems
Chemistry - Urea

"Equilibrium in the System Urea-Potassium Monophosphate-Water in the Range of -12.9° to +55°," V. A. Polossin, M. I. Shakhparonov, 6 pp

"Zhur Obshch Khim" Vol XVII, No 3

No chemical compounds of urea with potassium monophosphate were discovered in the temperature range studied.

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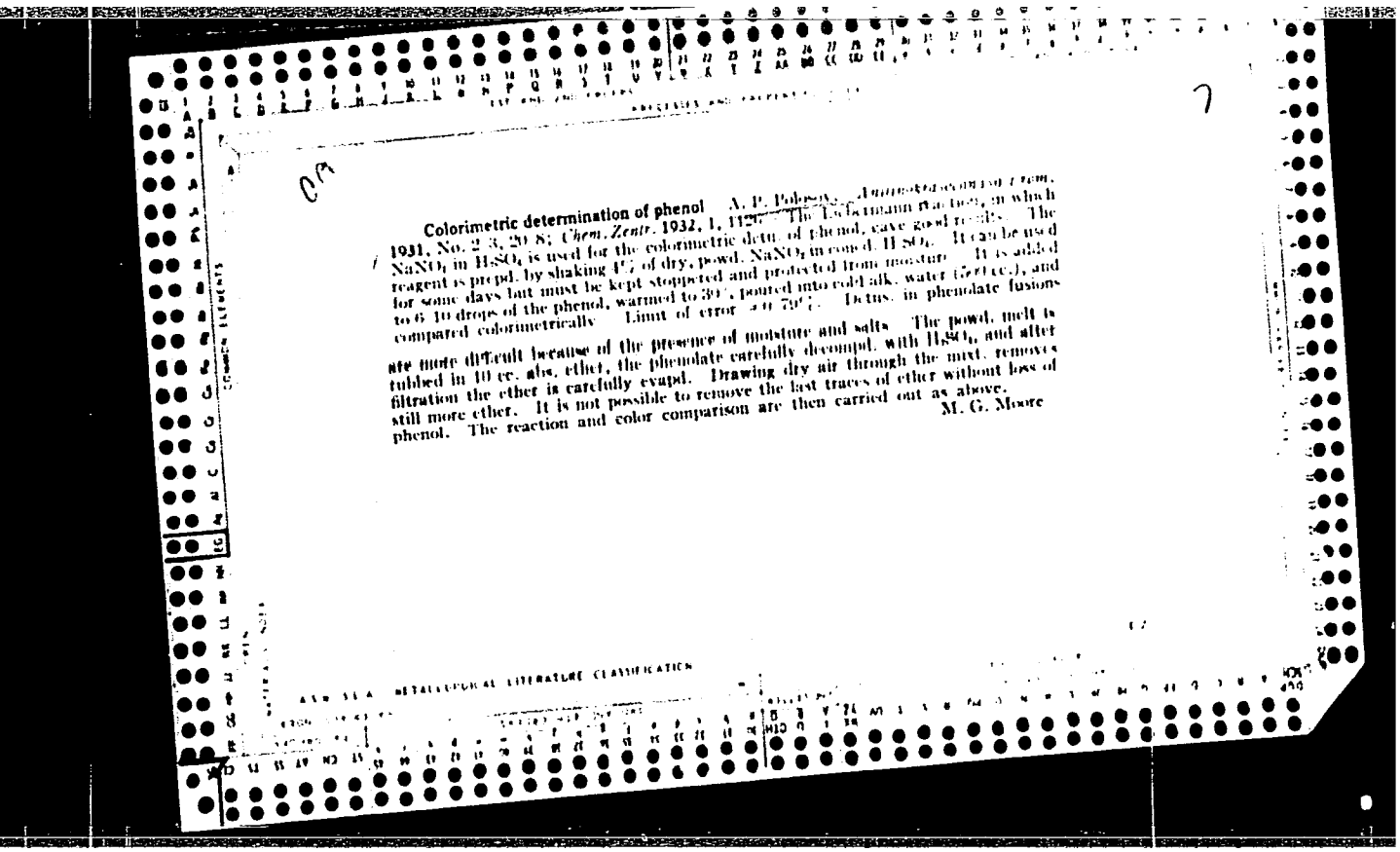

Colorimetric determination of phenol A. P. Pobozy[illegible] *Chem. Zentr.* 1932, I, 1125. The Liebermann reaction, in which 1931, No. 2 3, 20 8; $NaNO_2$ is used for the colorimetric detn. of phenol, gave good results. The $NaNO_2$ in H_2SO_4 is used for the colorimetric detn. of phenol, gave good results. The reagent is prepd. by shaking 1% of dry, powd. $NaNO_2$ in concd. H_2SO_4. It can be used for some days but must be kept stoppered and protected from moisture. It is added to 6–10 drops of the phenol, warmed to 30°, poured into cold alk. water (6–7 cc.), and compared colorimetrically. Limit of error ±0.70%. Detns. in phenolate fusions are more difficult because of the presence of moisture and salts. The powd. melt is rubbed in 10 cc. abs. ether, the phenolate carefully decompd. with H_2SO_4, and after filtration the ether is carefully evapd. Drawing dry air through the mixt. removes still more ether. It is not possible to remove the last traces of ether without loss of phenol. The reaction and color comparison are then carried out as above.

M. G. Moore

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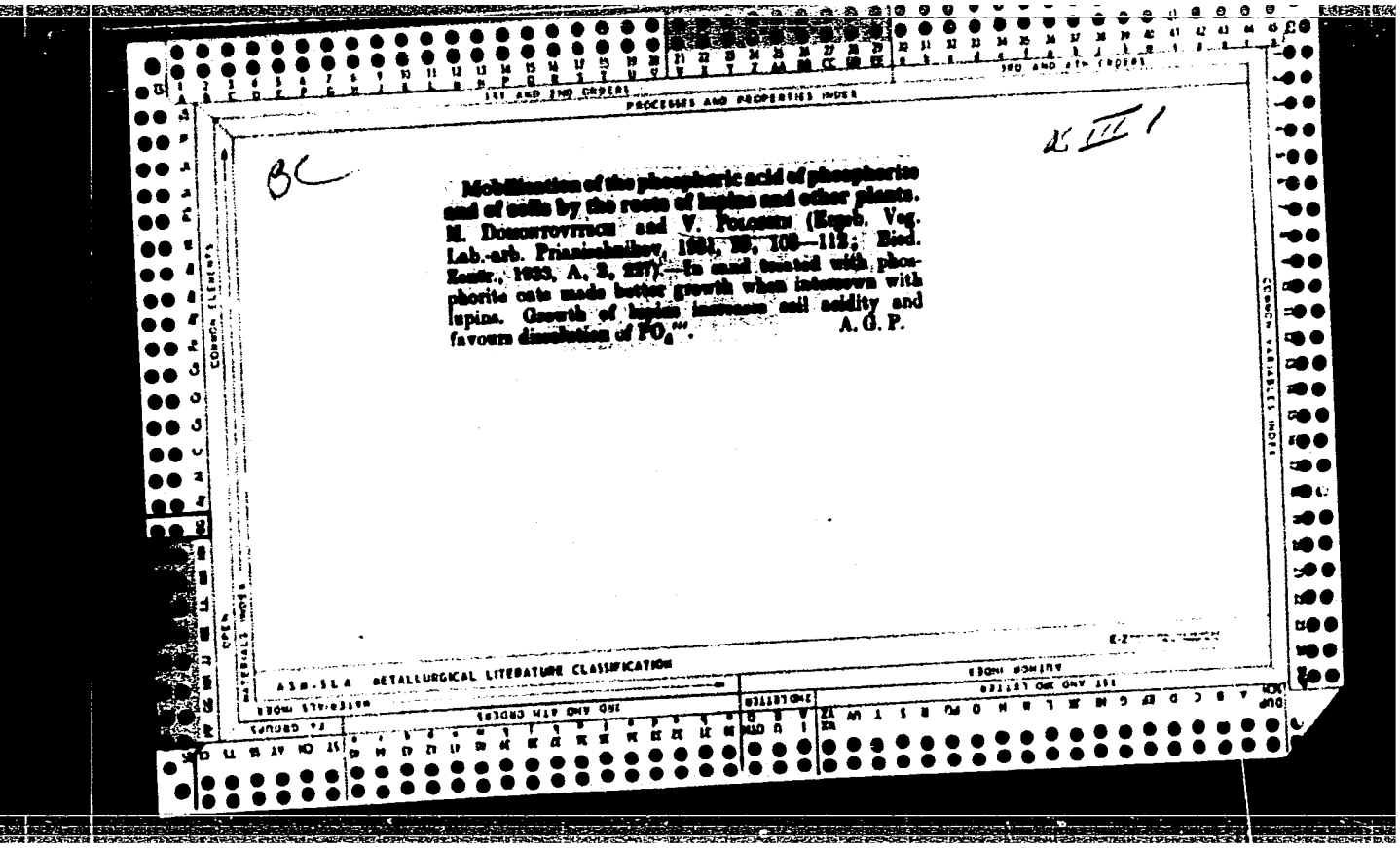

BC

Mobilisation of the phosphoric acid of phosphorite and of soils by the roots of lupins and other plants. M. Doucorovitsch and V. Polosina (Kapob. Vag. Lab.-arb. Prianishnikov, 1933, 10, 103—113; Biol. Zentr., 1933, A, 3, 227).—In sand treated with phosphorite oats made better growth when intergrown with lupins. Growth of lupins increases soil acidity and favours dissolution of PO_4'''. A. G. P.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUHKINA, T.Ya.; AL'ZHANOVA, T.M.

Role of the liver in producing cholesterol-protein complexes in the blood. Ukr. biokhim. zhur. 36 no.2:190-194 '64. (MIRA 17:11)

1. Department of Biological Chemistry of Alma-Ata State Medical Institute.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.P., professor, doktor, zasluzhennyy deyatel' nauki; SUVOROVA, R.I., redaktor; RORORINA, Z.P., tekhnicheskiy redaktor

[Papers on the pathogenesis and treatment of shock] Materialy po patogenezu i lecheniiu shoka. Pod red. A.P.Polosukhina. Alma-Ata, 1951. 218 p. (MIRA 9:12)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. 2. Chlen-korrespondent AN KazSSR (for Polosukhin)
(SHOCK)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A. P.

"The Extroceptive and Introceptive Regulation of Circulation, Respiration and Lymph Flow," at the session of the Academy of Medical Sciences on the problem of nervous regulation of circulation and respiration, held at Ryazan on 13 June 1951. USSR Fiziologicheskiy Zhurnal im. I. M. Sechenov, Vol 37, No 3, May-June 1951 (p. 10).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

1. POLOSUZHIN, A. P.

2. USSR (600)

4. Reticulo-Enthelial System

7. Studies on the role of blood storage; pathogenesis and therapy of shock. Trudy Vses. obshch. fiz. biokhim. i farm. no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.P., chlen-korrespondent Akademii nauk Kazakhskoy SSR.

Development of the ideas of I.P.Pavlov in research of Kazakhstan physiologist
Vest.AN Kazakh.SSR 10 no.10:15-24 O '53. (MLRA 6:11)
(Physiology)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.P.

USSR/ Medicine - Silicosis

Card 1/1 Pub. 123 - 4/17

Authors : Polosukhin, A. P., Member-Correspondent of the Acad. of Sc. Kaz. SSR.

Title : Some questions concerning the patho-genesis and prophilaxis of silicosis

Periodical : Vest. AN Kaz. SSR 11, 33-37, Nov 1954

Abstract : Various theories (mechanical, toxico-chemical) as to the etiology of silicosis are considered and criticized. Experiments (with animals) were conducted to determine the mechanism of contracting silicosis through the alimentary canal upon which the so-called "alimentary" theory of silicosis was based. On the basis of this theory various prophylactics were introduced (fat and milk diets), which showed a retarding effect on comtracting silicosis.

Institution : .....

Submitted : .....

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

Polosukhin, A. P.

USSR/ Scientists - Physiology

Card 1/1 Pub. 123 - 6/11

Authors : Polosukhin, A. P., Act. memb., Acad. of Sc., Kas. SSR

Title : Life and work of the founder of Russian physiology, I. M. Sechenov

Periodical : Vest. AN Kaz. SSR 12, 52-62, Dec 1955

Abstract : Text is presented of a lecture given during the general assembly of the Academy of Sciences, Kaz. SSR, honoring the 50-th anniversary of the death of I. M. Sechenov, founder of Russian physiology.

Institution : .....

Submitted : November 5, 1955

POLOSUKHIN, A. P.

EXCERPTA MEDICA Sec.2 Vol.9/8 Physiology, etc. Aug56

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

3561. POLOSUKHIN A. P., BEKETAYEV A. M. and MARKELOV I. [illegible] Inst. of Physiol. AN., Kazak SSR, Alma-Ata. *New data on the vasodilator action of the vagus nerve (Russian text) FIZIOL. Ż. 1955, 41/6 (760-764) Illus. 5

In heart-lung preparations (Pavlov-Starling) of the dog, section of the vagus produced an increase of blood pressure and heart rate in the majority of animals. When both vagi were severed at a level below the origin of heart nerves, the blood pressure increased without change of the heart rate. Stimulation of the peripheral end of the vagus decreased the blood pressure without change of the heart rate.

Simonson - Minneapolis, Minn.

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

MUSABAYEVA, Nagima Abdrakhmanovna; POLOSUKHIN, A.P., akademik, otvetstvennyy redaktor; ROZENBERG, TS.P., redaktor; ALFEROVA, P.F., tekhnicheskiy redaktor

[The physiological basis of sensory perception in the light of I.P. Pavlov's teaching regarding the higher nervous activity] O fiziologicheskoi osnove chuvstvennogo poznaniia v svete ucheniia I.P.Pavlova o vysshei nervnoi deiatel'nosti. Alma Ata, Izd-vo Akademii nauk Kazakhskoi SSR, 1956. 86 p. (MLRA 9:10)

1. Akademiya nauk Kazakhskoy SSR. (for Polosukhin)
(NERVOUS SYSTEM) (SENSES AND SENSATION)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A. P.

"History of the Development and Achievements of Kazakh Physiology," p.345. in Science in Kazakhstan during Forty Years of the Soviet Regime. Alma-ata. Izd-vo AN Kazakhskiy SSR, 1957, p. 452. (ed. Satpayer, K. I.)

This is a collection of articles (20) compiled by 24 authors on various aspects of scientific progress in Soviet Kazakhstan. One third of the articles also deal with the progress made in the main fields of industrial endeavor. The articles on the development if Science survey the main contributions made in the respective branches by Kazakh scientists, and enumeralte and describe the existing scientific institutes, organization, and universitites. A large number of scientists are mentioned and their fields of interest stated.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

USSR/Human and Animal Physiology (Normal and Pathological) T
Blood Circulation. Vessels.

Abs Jour : Ref Zhur Biol., No 6, 1959, 26603

Author : Polosukhin, A.P., Deketayev, A.M., Markelov, I.I.
Inst :
Title : Participation of Vagal Nerves in the Central Regulation of Lumen of Blood Vessels of Internal Organs.

Orig Pub : V sb.: Probl. fiziol. tsentr. nervn. sistemy, M.L., AN SSSR, 1957, 455-459

Abstract : Transsection of the trunk of the vagal nerve below the departure of cardiac branches induced a stable increase of blood pressure. In stimulation of peripheral terminals of these nerves, the blood pressure fell as a result of the blood vessels' dilatation. In pups up to 3 weeks old, the increase of blood pressure in transsection of vagal nerves and its fall in their stimulation was absent. In older pups the effect took place and

Card 1/2

USSR/Human and Animal Physiology (Normal and Pathological) T
Blood Circulation. Vessels.
APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

Abs Jour : Ref Zhur Biol., No 6, 1959, 26603

reached its maximum at 1½ - 2 months. It is possible that decrease of vagal nerve tonus is one of the causes of hypertonia. -- A.M. Ryabinovskiy

Card 2/2

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

GUMAROVA, F.G.; GOSTEVA, A.G.; TULEGENOV, Z.K.; MAKASHEVA, S.U.; POLOSUKHIN, A.P.; MUSABEKOV, A.M.; DANILOV, Yu.S.; NIGMATULIN, M.A.; ZAKHAROV, F.G.; LUZINA, Z.T.; NEPESOV, T.I.; STASYUNAS, I.P.; ISABEKOV, O.I.; SARSENBAYEVA, K.; KATSYUBA, V.T.; LENOVSKIY, A.S.; AKHMEDOV, K.Yu.; SUBKHANBERDIN, S.Kh.; KISLITSINA, N.P.; POLIKARPOV, S.V.; ZAIROV, K.S.; APSATAROV, A.A.; NOVOSEL'TSEV, V.N.; PETROV, N.N.; KHOMUTOV, M.V.; GALUSTYAN, A.S.; ARTYKOV, A.Ye.; DZHANDIL'DIN, N.D.; KOVRIGINA, M.D.; BAYSEBAYEV, M.; BUBLIK, V.N.; CHERNYSH, A.M.

Discussion on the report of S.R.Karynbaev, Minister of Public Health of the Kazakh S.S.R., on the status and improvement of medical care. Zdrav.Kazakh. 17 no.4/5 '57. (MIRA 12:6)

1. Zav. Alma-Atinskim oblastnym zdravotdelom (for Gumarova). 2. Vrach bol'nitsy g.Leninogorska Vostochno-Kazakhstanskogo oblzdravotdela (for Gosteva). 3. Zav. Karagandinskim oblastnym otdelom zdravookhraneniya (for Tulegenov). 4. Zav.Kzyl-Ordinskim oblastnym otdelom zdravookhraneniya (for Makasheva). 5. Vitse-prezident AN KazSSR (for Polosukhim). 6. Zav.Aktyubinskim oblastnym otdelom zdravookhraneniya (for Musabekov) 7. Ministr zdravookhraneniya Kirgizii (for Danilov).

(Continued on next card)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

GUMAROVA, F.G.---(continued) Card 2.

8. Zav.Vostochno-Kazakhstanskim oblastnym otdelom zdravookhraneniya (for Nigmatulin). 9. Chlen kollegii Ministerstva zdravookhraneniya SSSR (for Zakharov). 10. Zav.Kustanayskim oblastnym otdelom zdravookhraneniya (for Luzina). 11. Ministr zdravookhraneniya Turkmenskoy SSR (for Nepesov). 12. Zav.sel'skim vrachebnym uchastkom Priirtyshskogo rayona Pavlodarskoy oblasti (for Stasyunas). 13. Glavnyy vrach Kapal'skoy rayonnoy bol'nitsy Taldy-Kurganskoy oblasti (for Isabekov). 14. Zav. zhenotdelom Yuzhno-Kazakhstanskogo obkoma partii (for Sarsenbayeva). 15. Zav. Dzhambulskim oblastnym otdelom zdravookhraneniya (for Katsyuba). 16. Glavnyy vrach Alma-Atinskogo oblastnogo tuberkuleznogo dispansera (for Lenovskiy). 17. Ministr zdravookhraneniya Tadzhikskoy SSR (for Akhmedov). 18. Nachal'nik Kazaptekoupravleniya (for Subkhanberdin).

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GUMAROVA, F.G.---(continued) Card 3.

19. Zav. Semipalatinskim oblastnym otdelom zdravookhraneniya (for Kislitsina). 20. Predsedatel' respublikanskogo komiteta soyuza medrabotnikov (for Polikarpov). 21. Zam. ministra zdravookhraneniya Uzbekskoy SSR (for Zairov). 22. Zav.Alma-Atinskim gorodskim otdelom zdravookhraneniya (for Apsatarov). 23. Zav. Severo-Kazakhstanskim oblastnym otdelom zdravookhraneniya (for Novosel'tsev). 24. Zav.rayzdravotdelom Shortandinskogo rayona Akmolinskoy oblasti (for Petrov). 25. Zav. ministra zdravookhraneniya Soyuza SSR (for Khomutov). 26. Zav.ministra zdravookhraneniya ArmSSR (for Galustyan). 27. Predsedatel' Komiteta fizicheskoy kul'tury i sporta pri Sovete Ministrov KazSSR (for Artykov). 28. Sekretar' TSentral'nogo Komiteta Kommunisticheskoy partii Kazakhstana (for Dzhandil'din). 29. Ministr zdravookhraneniya Sovetskogo Soyuza (for Kovrigina). 30. Pervyy zamestitel' predsedatelya Soveta Ministrov KazSSR (for Beysebayev). 31. Uchastkovyy vrach Kustanayskoy oblasti (for Bublik). 32. Zam.predsedatelya Obshchestva Krasnogo Kresta Kazakhstana (for Chernysh).

(KAZAKHSTAN--PUBLIC HEALTH)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.P.

Development of certain vegetative functions and mechanisms of their regulation in onto- and phylogenesis [with summary in English]. Fiziol.zhur. 43 no.7:705-712 Jl '57. (MIRA 10:10)

1. Institut fiziologii AN KazSSR i Kafedra fiziologii Kazakhskogo meditsinskogo instituta, Alma-Ata.
(AUTONOMIC NERVOUS SYSTEM, physiology, develop. on onto- & phylogenesis (Rus))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

SATPAYEV, K.; BAISHEV, S.; POLOSUKHIN, A.; CHOKIN, Sh.; AUEZOV, M.; MUKANOV, S.; KENESBAYEV, S.; SAURANBAYEV, N.; GALUZO, I.G.; BALAKAYEV, M.; MUSABAYEV, G.; MAKHMUDOV, Kh.; ISMAILOV, Ye.; SIL'CHENKO, M.; DYUSENBAYEV, I.; BAZARBAYEV, M.; SULEYMENOVA, B. NUSUPBEKOV, A.; SHOINBAYEV, T.; GABDULLIN, M.; ZHARKESHEVA, G.

Sarsen Amanzholov; obituary. Vest. AN Kazakh. SSR 14 no.2:100-101 F '58. (MIRA 11:2)
(Amanzholov, Sarsen Amanzholovich, 1903-)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.P., akademik

Principle trends in the scientific activity of the Academy of Sciences of the Kazakh S.S.R. during the years 1959 through 1965. Vest.AN Kazakh.SSR 15 no.1:3-13 '59. (MIRA 12:1)

1. AN KazSSR, vitse-prezident AN KazSSR.
(Academy of Sciences of the Kazakh S.S.R.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

AVROV, P.Ya.; AYTALIYEV, Zh. A.; AUEZOV, M.O.; AKHMEDSAFIN, U.M.; BATISHCHEV-TARASOV, S.D.; BAZANOVA, N.U.; BAISHEV, S.B.; BAYKONUROV, A.B.; BEKTUROV, A.B.; BOGATYREV, A.S.; BOK, I.I.; BOKUKAYEV, R.A.; BUTLICHENKO, N.L.; BYKOVA, M.S.; ZHILINSKIY, G.B.; ZYKOV, D.A.; IVANKIN, P.F.; KAZANLI, D.M.; KAYUPOV, A.K.; KENESBAYEV, S.K.; KOLOTILIN, N.F.; KUNAYEV, D.A.; KUSHEV, G.L.; LAVR[illegible], V.V.; MASHANOV, O.Zh.; MEDOYEV, G.TS.; MONICH, V.K.; MUKANOV, S.; MUSREPOV, G.; MUKHAMEDZHANOV, S.M.; PARSHIN, A.V.; POKROVSKIY, S.N.; POLOSUKHIN, A.F.; RUSAKOV, M.P.; SERGIYEV, N.G.; SEYFULLIN, S.Sh.; TAZHIBAYEV, P.T.; FESENKOV, V.G.; SHLYGIN, Ye.D.; SHCHERBA, G.N.; CHOKIN, Sh.Ch.; CHOLPANKULOV, T.Ch.

Sixtieth birthday of Academician Kanysh Imantaevich Satpaev. Vest. AN Kazakh. SSR 15 no.4:58-61 Ap '59. (MIRA 12:7)
(Satpaev, Kanysh Imantaevich, 1899-)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

DZHUMAGALIYEVA, Fatikha Dzhumagaliyevna; POLOSUKHIN, A.P., akademik, otv. red.; POGOZHEV, A.S., red.; RORORKINA, Z.P., tekhn.red.

[Prevention and treatment of myocarditis and myocardial infarction] Profilaktika i lechenie eksperimental'nogo miokardita i infarkta miokarda. Alma-Ata, Izd-vo AN Kaz.SSR, 1963. 153 p. (MIRA 17:2)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.P.

Development of I.P. Pavlov's ideas in research on blood circulation, respiration, and lumph circulation by physiologists of Alma-Ata. Trudy Vsesʒ. ob-va fiziol., biokhim. i farm. 4:72-79 '58.
(MIRA 14:2)

1. Institut fiziologii AN KazSSR. Direktor instituta prof. A.P. Polosukhin.
(BLOOD—CIRCULATION) (RESPIRATION) (LYMPHATICS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

SATPAYEV, K.I.; POLOSUKHIN, A.P.; BAISHEV, S.B.; CHOKIN, Sh.Ch.; BORUKAYEV, R.A.; AKHMADSAFIN, U.M.; KUSHEV, G.L.; SHCHERBA, G.N.; MONICH, V.K.; MEDOYEV, G.TS.; LAVROV, V.V.; BARBOT-DE-MARNI, A.V.; GALITSKIY, V.V.; ZHILINSKIY, G.B.; KAYUPOV, A.K.; KAZANLI, D.N.; KOLOTILIN, N.F.; MUKHAMEDZHANOV, S.M.; SATPAYEVA, T.A.; VEYTS, B.I.; GAZIZOVA, K.S.; CHOLPANKULOV, T.Ch.; PARSHIN, A.V.; BYKOVA, M.S.; MITRYAYEVA, N.M.; VOLKOV, A.N.; CHAKABAYEV, S.Ye.; YARENSKAYA, M.A.; KHAYRUTDINOV, D.Kh.

On the 60th anniversary of the birth of I.I. Bok, Academician of the Academy of the Kazakh S.S.R. Vest.AN Kazakh.SSR 14 no.10:95-96 O '58. (MIRA 11:12)

(Bok, Ivan Ivanovich, 1898-)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

SATPAYEV, K.I., glavnyy red.; CHOKIN, Sh.Ch., otv.red.; BAZANOVA, N.U., red.; BEKTUROV, A.B., red.; POKROVSKIY, S.N., red.; POLOSUKHIN, A.P., red.; TAKIBAYEV, Zh.S., red.; ASAINOV, M.A., red.; POGOZHEV, A.S., red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Science in Soviet Kazakhstan, 1920-1960] Nauka Sovetskogo Kazakhstana, 1920-1960. Alma-Ata, 1960. 688 p.

(MIRA 13:12)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata.
(Kazakhstan--Science)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341820015-6

POLOSUKHIN, A.R.

"Extero- and interoceptive regulation of the pymph stream and its changes in ontogensis."

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FROLOV, A.G., doktor tekhn.nauk; BORISENKO, L.D., kand.tekhn.nauk; TYURKIN, M.N., inzh.; ZHILIN, A.M., inzh.; RABINOVICH, Yu.M., inzh.; POLOSUKHIN, A.Ya., inzh.

Loading machines for high-pressure hydraulic conveying of coal and rocks. Ugol' Ukr. 3 no.10:13-16 O '59.
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1. POLOSUKHIN, G. G.: MODIN, G. V.

2. USSR (600)

4. Trees - Diseases and Pests

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9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

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"Forestry Analysis of Contemporary Methods of Growing Shelter Belts During a Test on the Kamennaya Steppe." Cand Agr Sci, Voronezh Forestry Engineering Inst, Min Higher Education USSR, Voronezh, 1955. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

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CATEGORY : CULTIVATED PLANTS. Grains. Leguminous Grains. Tropical Cereals.

ABS. JOURN. : RZhBiol, NO. 4, 1959, No. 15617

AUTHOR : Polosukhin, G.I.

INST. : Voronezh Zooveterinary Institute

TITLE : Is It Possible for Corn damaged by Early Autumn Frosts, to Finish Ripening.

ORIG. PUB : V. sb.: Kul'tura kukuruzy v SSSR, M., "Sov. nauka", 1957, 50-52

ABSTRACT : Findings of the Voronezh Zooveterinary Institute's observations in 1955. Corn plants subjected to early autumn frosts at the beginning of grain ripening or in the phase of milky ripeness contained during seven to ten days after the first frost enough moisture for ensilage. It is recommended that corn crops for seed, if they have finished flowering before frosts, be left to finish ripening after frosts.

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TOLOSUKHIN, G. I.

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Summer seedings of perennial grasses on horse farms of the central chernozem provinces.
Agrobiologiia No. 1, 1952.
Voronezhskiy Trest Konnykh Zavodov.

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Strict observance of blind landing regulations. Grazhd.av. 12 no.1: 14 Ja '55. (MIRA 16:3)
(Ground controlled approach)

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IVANOV, V., komandir pozharnogo katera; POLOSUKHIN, M., polkovnik; NIKITIN, A.

Readers' letters. Pozh.delo 8 no.3:30 Mr '62. (MIRA 15:4)

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(Fire prevention)

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POLOSUKHIN, M.V.

SABUROV, A.; TARASOV-AGALAKOV,N.; VOZYAKOV, V.; ZEMSKIY, M.; TROITSKIY,I.; RUBIN, A.; OBUKHOV, F.; POLOSUKHIN, M.; REMIZOV, A.; SHALIN, V.; MIKHAYLOV, F.

Konstantin Moiseevich IAichkov; obituary. Pozh.delo 3 No.6:11 Je. '57. (MLRA 10:7)
(IAichkov, Konstantin Moiseevich, 1873-1957)

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(Welding) (Metallography)

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Oxyacetylene Welding and Cutting

Durability of joints welded by gas-pressure. Vest.mash. 31, no. 11, 1951.

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